



# EIC 2800 SEARCH REPORT



**STIC Database Tracking Number: 299903**

**To: HIEN PHAN  
Location: JEF-8D55  
Art Unit: 2800  
Tuesday, June 23, 2009**

**Case Serial Number: 09382702**

**From: DIANE JACKSON  
Location: EIC2800  
JEF-4B68  
Phone: (571)272-3260  
  
diane.jackson@uspto.gov**

## **Search Notes**

**Attached are litigation search results in Lexis Nexis, and CourtLink and Questel-Orbit.**

**Litigation was found for Serial Number 09/382702.**

**If you have any questions, please feel free to contact me.**

**Thanks,**

**Diane**

**Jackson, Diane**

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**From:** Phan, Hien

**Sent:** Monday, June 22, 2009 7:29 PM

JUN 23 2009

**To:** STIC-EIC2800

**Subject:** Litigation Search Request for US Patent No. 5661645

The patent was in litigation and is undergoing reissue examination 09/382702.

Please provide an updated litigation search.

Thank you.

*Hien H. Phan*

T-QAS

Technology Center 2800

Voice: (571) 272-1606

E-mail: [hien.phan@uspto.gov](mailto:hien.phan@uspto.gov)

Thomas Jefferson Bldg, Room 8D55

5,661,645

Selected file: PLUSPAT

PLUSPAT - (c) Questel , All Rights Reserved  
RELOADED 04/2009 Comprehensive Worldwide Patents database  
Individual records with all stages for each Country or Patent Office  
Coverage: 85+ patenting authorities; start dates vary from 1800 forward  
Abstracts & Titles in English , French , German & various other languages  
Option to exclude Machine Transl Abs from search with /NOMT qualifier.  
For more reload details , see the PlusPat Fact Sheet and Questel website  
Last update of file: 2009/06/19 (YYYY/MM/DD) 2009-25/UP (last update)

Search statement 1

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nbr /pn us5661645

PLUSPAT1	US5661641	1
PLUSPAT2	US5661642	1
PLUSPAT3	US5661643	1
PLUSPAT4	US5661644	1
PLUSPAT5	US5661645	1
PLUSPAT6	US5661646	1
PLUSPAT7	US5661647	1
PLUSPAT8	US5661648	1
PLUSPAT9	US5661649	1
PLUSPAT10	US566165	1
PLUSPAT11	US5661650	1
PLUSPAT12	US5661651	1
PLUSPAT13	US5661652	1
PLUSPAT14	US5661653	1
PLUSPAT15	US5661654	1

Some: numbers / Continue: Y / None: N

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Search 1 - 5 - 1

\*\* SS 1: Results 1


Continue: Y / N

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Search 1 - prt full legalall max - 1


\*\* SS 1: Results 1

Select All | Unselect All

☐ 1 / 1 PLUSPAT - Worldwide Patents -   
©Questel

US5661645 (A) Power supply for light emitting diode array  
PN US5661645 A 19970826 [US5661645]  
TI (A) Power supply for light emitting diode array  
IN (A) HOCHSTEIN PETER A (US)

AP US67320096 19960627 [1996US-0673200]  
 PR US67320096 19960627 [1996US-0673200]  
 IC (A) H02M-005/42  
 H02J-009/06 [2006-01 A - I R M EP]  
 ICAA H02M-001/00 [2007-01 A - I R M EP]  
 H02M-001/42 [2007-01 A - I R M EP]  
 H05B-033/08 [2006-01 A - I R M EP]  
 H02J-009/06 [2006 C - I R M EP]  
 ICCA H02M-001/00 [2006 C - I R M EP]  
 H05B-033/02 [2006 C - I R M EP]  
 H02M-001/42B  
 EC H02J-009/06C  
 H05B-033/08D2S  
 H05B-033/08D4C  
 PCL ORIGINAL (O) : 363089000  
 DT Basic  
 Unspecified source  
 US5321600 [US5321600] 365308900  
 CT US5532918 [US5532918] 363089000  
 US5563781 [US5563781] 363124000  
 US5572416 [US5572416] 363089000  
 US5587895 [US5587895] 363089000  
 STG (A) Patent  
 An apparatus (10) for supplying regulated voltage d.c. electrical power to an LED array (12) includes a rectifier (32) responsive to a.c. power for generating rectified d.c. power and a power factor correcting and voltage regulating buck/boost switchmode converter (38) responsive to the rectified d.c. power for generating regulated voltage d.c. power to illuminate the LED array (12). A battery backup system (62) receives the a.c. power applied to the rectifier (32) for charging a rechargeable battery (66) and sensing an a.c. power failure. A switch-over relay (82) is connected between the battery backup system (62) and the rectifier. Upon sensing a failure of the a.c. power, the battery backup system (62) controls the switch-over relay (82) to connect the battery backup system (62) to the rectifier (32) to provide d.c. power to the switchmode converter (38) to illuminate the LED array (12). A half wave power detector (88) causes the apparatus (10) to reduce regulated d.c. power to dim the LED array (12).

☐ 1 / 1 LGST - Legal Status -   
 ©EPO

US5661645 19980506 US/AS02A [NMC]ASSIGNMENT OF ASSIGNOR'S INTERESTOWNER:  
 RELUME 64 PA...

PN US5661645 A 19970826 [US5661645](A) Patent  
 AP US67320096 19960627 [1996US-0673200]  
 19960627 US-API [POS; EXM]  
 FILING DETAILS  
 PUB US67320096 19960627 [1996US-0673200]  
 19970826 US-A [POS; EXM]  
 Patent  
 US5661645 A 19970826 [US5661645]

19980506 US/AS02-A [NMC]  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
OWNER: RELUME 64 PARK STREET TROY, MICHIGAN 48084; EFFECTIVE DATE:  
19980329

19980506 US/AS02-A [NMC]  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
OWNER: HOCHSTEIN, PETER A.; EFFECTIVE DATE: 19980329

19980506 US/AS-A [NMC]  
ASSIGNMENT  
OWNER: RELUME, MICHIGAN; EFFECTIVE DATE: 19980329  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:HOCHSTEIN, PETER  
A.;REEL/FRAME:009207/0239

19990412 US/AS02-A [NMC]  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
OWNER: RELUME 64 PARK STREET TROY, MICHIGAN 48084; EFFECTIVE DATE:  
19990330

19990412 US/AS02-A [NMC]  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
OWNER: FOY, DENNY; EFFECTIVE DATE: 19990330

ACT 19990412 US/AS-A [NMC]  
ASSIGNMENT  
OWNER: RELUME, MICHIGAN; EFFECTIVE DATE: 19990330  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:FOY,  
DENNY;REEL/FRAME:009883/0234

19991019 US/RF-A [OPP]  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 19990824

20010501 US/RF-A [OPP]  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20010223

20020320 US/AS-A [NMC]  
ASSIGNMENT  
OWNER: PALFFY, JOHN 753 GRAND MARAISGROSSE POINT PARK, MI; EFFECTIVE  
DATE: 20011218  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:RELUME CORPORATION  
/AR;REEL/FRAME:012698/0783

20020320 US/AS-A [NMC]  
ASSIGNMENT  
OWNER: PALFFY, JOHN 753 GRAND MARAIS GROSSE POINT PARK MI; EFFECTIVE  
DATE: 20011218  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:RELUME  
CORPORATION;REEL/FRAME:012698/0783

20020320 US/AS-A [NMC]

ASSIGNMENT

OWNER: PALFFY, JOHN, MICHIGAN; EFFECTIVE DATE: 20011218

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:RELUME

CORPORATION;REEL/FRAME:012698/0783

20050809 US/AS-A [NMC]

ASSIGNMENT

OWNER: RELUME CORPORATION, MICHIGAN; EFFECTIVE DATE: 20040924

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PALFFY,

JOHN;REEL/FRAME:016369/0924

20070320 US/RF-A [OPP]


REISSUE APPLICATION FILED

EFFECTIVE DATE: 20070116

OPP

LEG Alive

UP 2009-20

☐ 1 / 1 CRXX - US Claims Reassignments -   
©CLAIMS/RRX

US5661645 19980506 REASSIGNEDASSIGNMENT OF ASSIGNORS INTERESTAssignor:  
HOCHSTEIN, PETE...

AN 2877206

PN 5,661,645 A 19970826 [US5661645]

PA Hochstein, Peter A

PT E (Electrical)

19980506 REASSIGNED

ASSIGNMENT OF ASSIGNORS INTEREST

Assignor: HOCHSTEIN, PETER A. DATE SIGNED: 03/29/1998

Assignee: RELUME 64 PARK STREET TROY MICHIGAN 48084

Reel 009207/Frame 0239

ACT Contact: HOWARD & HOWARD ATTORNEYS, P.C. HAROLD W. MILTON 1400 NORTH  
WOODWARD AVENUE, SUITE 101 BLOOMFIELD HILLS, MI 48304

19990412 REASSIGNED

ASSIGNMENT OF ASSIGNORS INTEREST

Assignor: FOY, DENNY DATE SIGNED: 03/30/1999

Assignee: RELUME 64 PARK STREET TROY MICHIGAN 48084

Reel 009883/Frame 0234

Contact: NIRO, SCAVONE, HALLER & NIRO ROBERT P. GREENSPOON 181 W.  
MADISON ST., SUITE 4600 CHICAGO, IL 60602

19990824 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 19991019  
REISSUE REQUEST NUMBER: 09/382702  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2838

Reissue Patent Number:

20010223 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20010501  
REISSUE REQUEST NUMBER: 09/792467  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2838

Reissue Patent Number:

20020320 REASSIGNED  
ASSIGNMENT OF ASSIGNORS INTEREST

Assignor: RELUME CORPORATION DATE SIGNED: 12/18/2001

Assignee: PALFFY, JOHN 753 GRAND MARAIS GROSSE POINT PARK MICHIGAN 48230

Reel 012698/Frame 0783

Contact: MACMILLAN, SOBANSKI & TODD, LLC WILLIAM J. CLEMENS, ESQ. ONE  
MARITIME PLAZA, 4TH FLOOR 720 WATER ST. TOLEDO, OH 43604

20050809 REASSIGNED  
ASSIGNMENT OF ASSIGNORS INTEREST

Assignor: PALFFY, JOHN, DATE SIGNED: 09/24/2004

Assignee: RELUME CORPORATION, 64 PARK STREET, TROY, MICHIGAN, 48084

Reel 016369/Frame 0924


Contact: HOWARD AND HOWARD ATTORNEYS, P.C., THE PINEHURST OFFICE

CENTER, SUITE 101, 39400 WOODWARD AVENUE, BLOOMFIELD HILLS, MI 48304-5151

20070116 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20070320  
REISSUE REQUEST NUMBER: 11/653787  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2838

Reissue Patent Number:

UP 1999-00  
UACT 2007-03-20  
URAS 2005-08-16

☐ 1 / 1 LITA - US Patent and Trademark   
Litigation - ©Thomson Reuters

P1998-26-21 Relume Corporation  
AN P1998-26-21  
FS PATENT (P)  
PN US5661645 19970826 (Utility)  
TI Power supply for light emitting diode array  
PCL 363089000  
IN Hochstein Peter A  
PA not available  
IT Electric power conversion systems  
PF Relume Corporation  
DF Dor Light Corporation etal  
CT MI  
DN 98-72360  
FD 1998-06-09  
ACT A complaint was filed.  
UP 1998-26

Search statement 2

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..fi fampat

Selected file: FAMPAT

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RELOADED 04/2009 Searchable biblio & abstracts for all family members  
Search and display options for both FamPat & extended family definitions  
Coverage: 85+ patenting authorities; start dates vary from 1800 forward



New user option to view Abstracts & Titles in English , French or German  
Option to exclude Machine Transl Abs from search with /NOMT qualifier.  
For more reload details , see the FamPat Fact Sheet and Questel website  
Last update of file: 2009/06/19 (YYYY/MM/DD) 2009-25/UP (last update)

Search statement 1

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nbr /pn us5661645

FAMPAT1	US5661641	1
FAMPAT2	US5661642	1
FAMPAT3	US5661643	1
FAMPAT4	US5661644	1
FAMPAT5	US5661645	1
FAMPAT6	US5661646	1
FAMPAT7	US5661647	1
FAMPAT8	US5661648	1
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FAMPAT10	US566165	1
FAMPAT11	US5661650	1
FAMPAT12	US5661651	1
FAMPAT13	US5661652	1
FAMPAT14	US5661653	1
FAMPAT15	US5661654	1

Some: numbers / Continue: Y / None: N

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Search 1 - 5 - 1

\*\* SS 1: Results 1

Continue: Y / N

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Search 1 - prt full legalall max - 1

\*\* SS 1: Results 1

[Select All](#) | [Unselect All](#)

☐ 1 / 1 FAMPAT - Patent Families -

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US5661645 POWER SUPPLY FOR LIGHT EMITTING DIODE ARRAY

FAN 20090091650765

US5661645 A 19970826 [US5661645]

WO9750168 A1 19971231 [WO9750168]

PN

CA2259258 A1 19971231 [CA2259258]

AU3399097 A 19980114 [AU9733990]

EP0907999 A1 19990414 [EP-907999]

EP0907999 A4 19991117 [EP-907999]

TI POWER SUPPLY FOR LIGHT EMITTING DIODE ARRAY

PA HOCHSTEIN PETER A  
 PA0 Hochstein, Peter A.; 2966 River Valley Drive; Troy Michigan 48098 (US)  
 IN HOCHSTEIN PETER A  
 1996US-0673200 19960627  
 1997AU-0033990 19970616  
 AP 1997CA-2259258 19970616  
 1997WO-US10514 19970616  
 1997EP-0930076 19970616  
 (EP-907999)  
 PPN WO9750168 - 19971231 [WO9750168]  
 (EP-907999)  
 PAP WOUS9710514 0 [1997WO-US10514]  
 (AU9733990)  
 PAP WOUS9710514 19970616 [1997WO-US10514]  
 PR 1996US-0673200 19960627  
 1997WO-US10514 19970616  
 H02J-009/06  
 H02M-001/00  
 H02M-001/42  
 IC H02M-005/42  
 H05B-033/02  
 H05B-033/08  
 H02J-009/06 [2006-01 A - I R M EP]  
 ICAA H02M-001/00 [2007-01 A - I R M EP]  
 H02M-001/42 [2007-01 A - I R M EP]  
 H05B-033/08 [2006-01 A - I R M EP]  
 H02J-009/06 [2006 C - I R M EP]  
 ICCA H02M-001/00 [2006 C - I R M EP]  
 H05B-033/02 [2006 C - I R M EP]  
 H02J-009/06C  
 EC H02M-001/42B  
 H05B-033/08D2S  
 H05B-033/08D4C  
 PCL ORIGINAL (O) : 363089000  
 (EP-907999)  
 DS DE ES FR GB IT  
 (WO9750168)  
 AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL IS  
 JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO  
 DS RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN AM AZ BY KG KZ MD RU TJ TM  
 ARIPO patent : GH KE LS MW SD SZ UG ZW  
 European patent : AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
 OAPI patent : BF BJ  
 (EP-907999)  
 Search Report [Examiner]  
 US4827151(A)(Cat. X) [US4827151]  
 CT US4277728(A)(Cat. X) [US4277728]  
 US4980812(A)(Cat. X) [US4980812]  
 DE4433552(A1)(Cat. X) [DE4433552]  
 EP0641148(A1)(Cat. X) [EP-641148]  
 (US5661645)  
 CT Unspecified source

US5321600 [US5321600] 365308900  
US5532918 [US5532918] 363089000  
US5563781 [US5563781] 363124000  
US5572416 [US5572416] 363089000  
US5587895 [US5587895] 363089000  
(WO9750168)

Search Report [Examiner]

CT US5321600(A)(Cat. A) [US5321600]  
US5532918(A)(Cat. A,P) [US5532918]  
US5563781(A)(Cat. A,P) [US5563781]  
US5572416(A)(Cat. A,P) [US5572416]  
US5587895(A)(Cat. A,P) [US5587895]  
(EP-907999)

REF Search Report references [Examiner]  
-See also references of WO 9750168A1  
(WO9750168)

REF Search Report references [Examiner]  
-See also references of EP 0907999A1  
(US5661645)

An apparatus (10) for supplying regulated voltage d.c. electrical power to an LED array (12) includes a rectifier (32) responsive to a.c. power for generating rectified d.c. power and a power factor correcting and voltage regulating buck/boost switchmode converter (38) responsive to the rectified d.c. power for generating regulated voltage d.c. power to illuminate the LED array (12).

AB A battery backup system (62) receives the a.c. power applied to the rectifier (32) for charging a rechargeable battery (66) and sensing an a.c. power failure. A switch-over relay (82) is connected between the battery backup system (62) and the rectifier. Upon sensing a failure of the a.c. power, the battery backup system (62) controls the switch-over relay (82) to connect the battery backup system (62) to the rectifier (32) to provide d.c. power to the switchmode converter (38) to illuminate the LED array (12). A half wave power detector (88) causes the apparatus (10) to reduce regulated d.c. power to dim the LED array (12).  
(US5661645)

The present invention relates generally to an apparatus for generating power to a light emitting diode array and, in particular, to a power supply for operating light emitting diode array traffic signals.

The present invention concerns an apparatus for supplying regulated voltage d.c. electrical power to an LED array.


OBJ A primary object of the present invention is to provide a power factor correcting, (boost, buck/boost or buck) switchmode converter to power a line operated LED signal.  
Another object of the present invention is to use the inherent pulse modulating nature of a switchmode power supply to provide voltage regulation to an LED array.  
The apparatus according to the present invention also includes an adaptive clamp circuit connected to the rectifier input for eliminating leakage current problems.  
(US5661645)

ADB Since this relatively simple circuit does not provide any regulation, i.e. the light output varies with varying input voltage, it has been generally superseded by the regulated circuit shown in the FIG. 2.  
(US5661645)

ICLM 1. An apparatus for supplying regulated voltage d.c. electrical power to an LED array comprising: a rectifier means (32) having an input and an output, said rectifier means (32) being responsive to a.c. power at said input for generating rectified d.c. power at said output;  
a power factor correction converter means (38) having an input connected to said output of said rectifier means (32) and an output, said power factor correction converter means (38) being

responsive to said rectified d.c. power at said power factor correction converter means input for generating regulated voltage d.c. power at said power factor correction converter means output; and  
an LED array (12) having an input connected to said output of said power factor correction converter means (38) for receiving said regulated voltage d.c. power to illuminate said LED array (12).

UP 2000-08

☐ 1 / 4 LGST - Legal Status -   
©EPO

US5661645 19980506 US/AS02A [NMC] ASSIGNMENT OF ASSIGNOR'S INTEREST OWNER:  
RELUME 64 PA...

PN US5661645 A 19970826 [US5661645](A) Patent

AP US67320096 19960627 [1996US-0673200]

19960627 US-API [POS; EXM]

FILING DETAILS

PUB US67320096 19960627 [1996US-0673200]

19970826 US-A [POS; EXM]

Patent

US5661645 A 19970826 [US5661645]

19980506 US/AS02-A [NMC]

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: RELUME 64 PARK STREET TROY, MICHIGAN 48084; EFFECTIVE DATE:  
19980329

19980506 US/AS02-A [NMC]

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: HOCHSTEIN, PETER A.; EFFECTIVE DATE: 19980329

19980506 US/AS-A [NMC]

ASSIGNMENT

OWNER: RELUME, MICHIGAN; EFFECTIVE DATE: 19980329

ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: HOCHSTEIN, PETER

ACT A.; REEL/FRA: 009207/0239

19990412 US/AS02-A [NMC]

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: RELUME 64 PARK STREET TROY, MICHIGAN 48084; EFFECTIVE DATE:  
19990330

19990412 US/AS02-A [NMC]

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: FOY, DENNY; EFFECTIVE DATE: 19990330

19990412 US/AS-A [NMC]

ASSIGNMENT

OWNER: RELUME, MICHIGAN; EFFECTIVE DATE: 19990330

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:FOY,  
DENNY;REEL/FRAME:009883/0234

19991019 US/RF-A [OPP]  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 19990824

20010501 US/RF-A [OPP]  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20010223

20020320 US/AS-A [NMC]  
ASSIGNMENT  
OWNER: PALFFY, JOHN 753 GRAND MARAIS GROSSE POINT PARK, MI; EFFECTIVE  
DATE: 20011218  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:RELUME CORPORATION  
/AR;REEL/FRAME:012698/0783


20020320 US/AS-A [NMC]  
ASSIGNMENT  
OWNER: PALFFY, JOHN 753 GRAND MARAIS GROSSE POINT PARK MI; EFFECTIVE  
DATE: 20011218  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:RELUME  
CORPORATION;REEL/FRAME:012698/0783

20020320 US/AS-A [NMC]  
ASSIGNMENT  
OWNER: PALFFY, JOHN, MICHIGAN; EFFECTIVE DATE: 20011218  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:RELUME  
CORPORATION;REEL/FRAME:012698/0783

20050809 US/AS-A [NMC]  
ASSIGNMENT  
OWNER: RELUME CORPORATION, MICHIGAN; EFFECTIVE DATE: 20040924  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PALFFY,  
JOHN;REEL/FRAME:016369/0924

20070320 US/RF-A [OPP]  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20070116

LEG OPP  
UP Alive  
2009-20

☐ 2 / 4 LGST - Legal Status -   
©EPO

WO9750168 19971231 WO/AK [POS; ADM]DESIGNATED STATES CITED IN A PUBLISHED  
APPLICATION...  
PN WO9750168 A1 19971231 [WO9750168](A1) International publication with international search report

AP WO/US9710514 19970616 [1997WO-US10514]  
19970616 WO-API [POS; EXM]  
FILING DETAILS

PUB WO/US9710514 19970616 [1997WO-US10514]  
19971231 WO-A1 [POS; EXM]

International publication with international search report

WO/9750168 A1 19971231 [WO/9750168]

19971231 WO/AK [POS; ADM]

DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL IS JP KE  
KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG  
SI SK TJ TM TR TT UA UG US UZ VN AM AZ BY KG KZ MD RU TJ TM

19971231 WO/AL [POS; ADM]

DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION  
WITH SEARCH REPORT

GH KE LS MW SD SZ UG ZW AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ

19980312 WO/DFPE [EXM]

REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH  
MONTH FROM PRIORITY DATE (PCT APPLICATION FILED BEFORE 20040101)

19980422 WO/121 [ENP]

EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS  
APPLICATION

19981221 WO/ENP [ENP]

ENTRY INTO THE NATIONAL PHASE IN:

ACT Corresponding Pat: CA 2259258 [CA2259258]

19981222 WO/WWE [POS; ENP]

WIPO INFORMATION: ENTRY INTO NATIONAL PHASE

Corresponding Appl: EP 1997930076 [1997EP-0930076]

19990305 WO/NENP [RLW]

NON-ENTRY INTO THE NATIONAL PHASE IN:

Corresponding Appl: JP 98503265 [1998JP-0503265]

19990414 WO/WWP [POS; ADM]

WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE

Corresponding Appl: EP 1997930076 [1997EP-0930076]

19990422 WO/REG; DE/8642 [NEG; ENP; RLW]

REFERENCE TO NATIONAL CODE

DE: IMPACT ABOLISHED FOR DE - I.E. PCT APPL. NOT ENT. GERMAN PHASE

DE: WIRKUNG WEGGEFALLEN FUER DE

Corresponding cc: DE


20021231 WO/WWW [NEG; RLW]

WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE

Corresponding Appl: EP 1997930076 [1997EP-0930076]

LEGRLW

Alive  
UP 2008-30

☐ 3 / 4 LGST - Legal Status -   
©EPO

EP-907999 19990414 EP/AKA [POS; ADM]DESIGNATED CONTRACTING STATES:BENANNT  
VERTRAGSST...

PN EP0907999 A1 19990414 [EP-907999](A1) Application published with search report  
EP0907999 A4 19991117 [EP-907999](A4) Supplementary search report

AP EP97930076 19970616 [1997EP-0930076]  
19970616 EP-API [POS; EXM]  
FILING DETAILS

EP97930076 19970616 [1997EP-0930076]  
19990414 EP-A1 [POS; EXM]  
PUB Application published with search report  
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DESIGNATED CONTRACTING STATES:  
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DE ES FR GB IT

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©CLAIMS/RRX

US5661645 19980506 REASSIGNED ASSIGNMENT OF ASSIGNORS INTEREST Assignor:  
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AN 2877206  
PN 5,661,645 A 19970826 [US5661645]  
PA Hochstein, Peter A  
PT E (Electrical)  
19980506 REASSIGNED  
ASSIGNMENT OF ASSIGNORS INTEREST

Assignor: HOCHSTEIN, PETER A. DATE SIGNED: 03/29/1998

Assignee: RELUME 64 PARK STREET TROY MICHIGAN 48084

ACT

Reel 009207/Frame 0239

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19990412 REASSIGNED  
ASSIGNMENT OF ASSIGNORS INTEREST

Assignor: FOY, DENNY DATE SIGNED: 03/30/1999

Assignee: RELUME 64 PARK STREET TROY MICHIGAN 48084

Reel 009883/Frame 0234

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20020320 REASSIGNED  
ASSIGNMENT OF ASSIGNORS INTEREST

Assignor: RELUME CORPORATION DATE SIGNED: 12/18/2001

Assignee: PALFFY, JOHN 753 GRAND MARAIS GROSSE POINT PARK MICHIGAN 48230

Reel 012698/Frame 0783

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20050809 REASSIGNED  
ASSIGNMENT OF ASSIGNORS INTEREST

Assignor: PALFFY, JOHN; DATE SIGNED: 09/24/2004

Assignee: RELUME CORPORATION, 64 PARK STREET, TROY, MICHIGAN, 48084

Reel 016369/Frame 0924

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5151

20070116 REISSUE REQUESTED  
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